

## Manual for the Foundry Man (Cont.)

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PURPOSE: This book is intended for engineers, scientists, technicians, and shop foremen engaged in casting of nonferrous metals. It may also be used as a manual by students interested in this field.

COVERAGE: The book deals with the physical, chemical and mechanical properties of aluminum and magnesium and their commercial alloys. There are numerous reference tables, and various methods of casting are described and illustrated. Defects commonly encountered in casting are listed and various remedies suggested. There is a brief description of various casting machines, mostly of the cold chamber type, among others a copy of the Reed Prentice casting machine. The authors conclude with a discussion on safety techniques and industrial hygiene, as the handling of magnesium may be hazardous. No personalities are mentioned. There are 91 Soviet references.

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CONTENTS:

## PART I. SHAPED CASTINGS FROM ALUMINUM ALLOYS

Ch. I. Composition, Structure, and Properties of Aluminum  
Casting Alloys

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SOKOL'SKAYA, Lidiya Iosifovna; KHIMOV, V.V., kand.tekhn.nauk, nauchnyy red.; SHAROV, M.V., kand.tekhn.nauk, retsenzent; KHRYSIN, B.T., inzh., retsenzent; ML'KIND, L.M., red.izd-va; KARASHEV, A.I., tekhn.red.

[Gases in light metals] Gazy v legkikh metallakh. Pod nauchnoi red. V.V.Krymova. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959, 114 p. (MIRA 12:6)  
(Gases in metals)

21931

18.1245

S/128/60/000/001/002/007  
A133/A127

AUTHORS: Krymov, V. V., Nikol'skaya, Ye. M., Tikhonova, V. V.,  
Fedorova, V. K.

TITLE: Production of foundry magnesium alloys containing zirconium

PERIODICAL: Liteynoye proizvodstvo, no. 1, 1960, 23-25

TEXT: The article deals with various magnesium alloys to which zirconium had been added to reduce the grain size and to render improved mechanical properties of alloy castings. Investigations have been carried out to find an optimum method for adding zirconium to foundry magnesium alloys at a ratio of at least 0.6%. This is a difficult technological problem owing to the high chemical activity, high melting point, considerable specific weight (6.4) and low solubility of zirconium. Two test series were carried out. In the first, zirconium was added in the form of potassium fluorozirconate, in the second, zirconium was added in the form of foundry alloy, as virgin metal (100%), secondary metal (100%) or in a combined

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form (70% virgin, 30% secondary metal). Test results obtained in the first series indicated that the composition of the working alloy, after remelting, is not constant. Thereby, the zirconium content considerably decreased, and the addition of zirconium in the form of fluorine salts increased the danger for the foundrymen. An analysis of the second series proved that the simplest and most dependable method involves the use of a blended foundry alloy whereby zirconium is obtained through reduction by means of magnesium from a melt of potassium fluorozirconate and carnallite. In this case, carnallite, equaling 25% of the weight of the charge, is put into a crucible and heated to 730-750°C, held until bubbling stops to provide conditions for adding 50% potassium fluorozirconate in small portions. When the latter dissolved, magnesium, melted in an other crucible, is added. Simultaneously, the temperature is increased to 780-800°C and the charge is thoroughly stirred. Such a foundry alloy contains 20-35% zirconium in the dissolved state and 10-15% elementary zirconium with a total zirconium content between 30-50%. The

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## Production of foundry magnesium alloys...

following factors have been investigated: the effect of the added foundry alloy on the mechanical properties of an alloy melted from a 100% virgin metal; the effect of repeated remelting without any refining on the zirconium content of the alloy and its mechanical properties; the effect of adding different amounts of foundry alloys on the Zr content and the mechanical properties of an alloy melted from 70% secondary and 30% virgin metal. Testing the mechanical properties of the Mg2(Mg12) alloy as to the effect of its Zr content it was found that an increased Zr content raises the strength limit, and in particular, the yield point of the alloy. High and stable properties have been attained with an addition of 7.5 - 10% foundry alloy. At repeated remelting without any further addition of foundry alloy the Zr content somewhat decreases but comes still close to 0.6 %, simultaneously ensuring high-level anti-corrosion properties. Based on these studies the following melting technology is recommended: the charge will consists of Mg (MG1) bar magnesium, zinc bars of a grade not lower than U2(Ts2), alloying rare-earth metals or thorium, magnesium-zirconium foundry alloy (30-50% Zr) and secondary

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Production of foundry magnesium alloys... S/128/60/000/001/002/007  
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metal. The charge is calculated for a 2.5% Zr content; zinc and rare earth metal content is rated at median values and as to the thorium content the upper limit has been considered. The amount of the foundry alloy is calculated in the following way, depending on the composition of the charge:

Composition of the charge	Foundry alloy added
100% virgin metal	7.5 %
60-80% secondary metal + 20-40% virgin metal	7.5 % of the weight of the virgin metal and 2% of the weight of the secondary metal
100% secondary metal	2 %

In the melting process BN2(VI2) and BN3 (VI3) type fluxes are used. Zinc is added after melting and reheating of magnesium up to 700-720°C. After refining and overheating at 780-800°C the contaminated flux is removed from the surface of the melt and foundry alloy is added in corresponding portions. Thereby, melting temperature has to

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Production of foundry magnesium alloys... S/128/60/000/001/002/007  
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be maintained at 760°C and must not be lower while reheating temperatures have to be above 800°C. After having added the foundry alloy fresh flux is put on the surface of the melt, the melt is held for 10-15 minutes and then poured at 740-780°C. The quality of the melt so prepared is determined by technological break test samples and from the results of spectrum analysis. When preparing the charge it is necessary to use well-cleaned crucibles and any aluminum or Mn5 (Mn5) or Mn4(Mn4) alloy residues should be avoided. There is 1 figure and 5 tables.

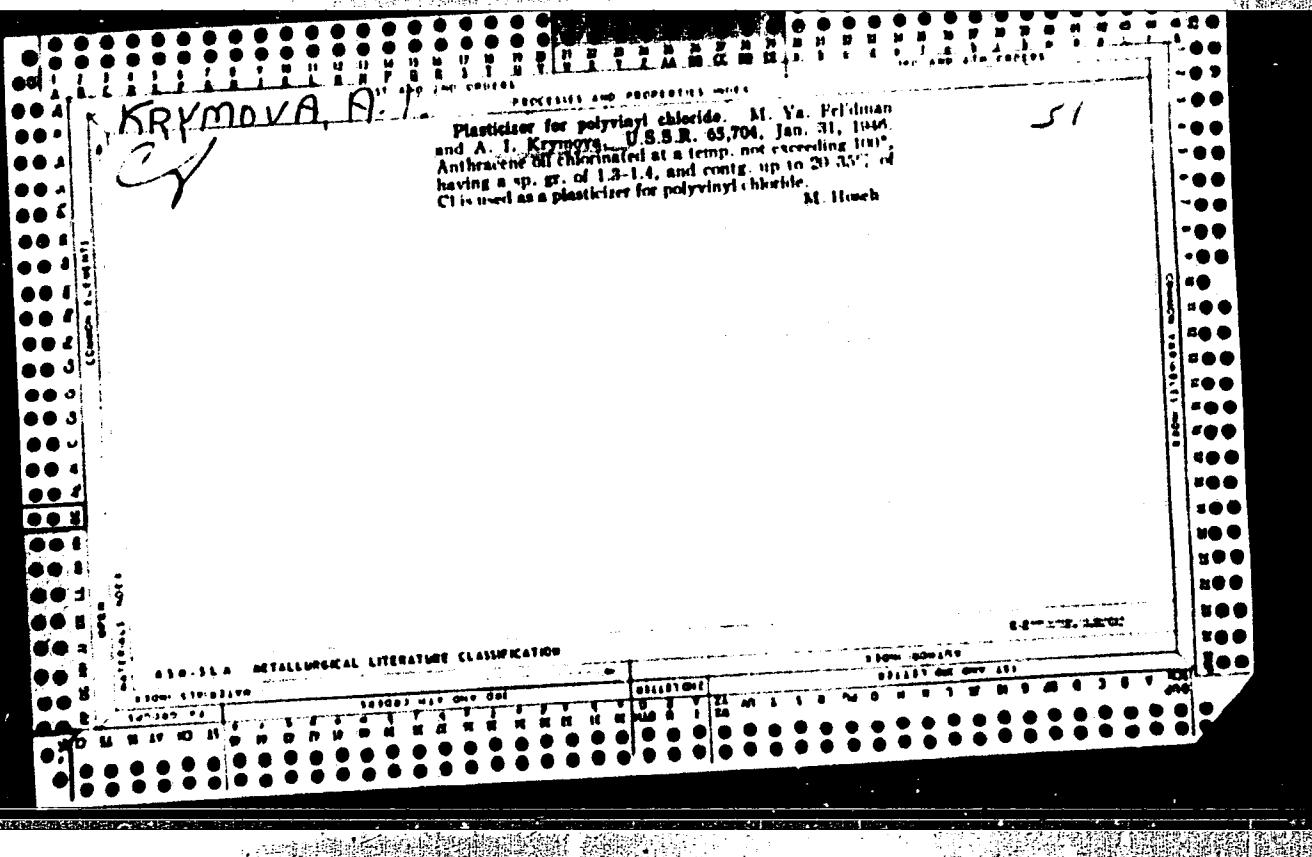
Card 5/5

X

KRYMOV, Yu.S.; TVERSKOV, B.A.

Changes in the energy of particles in a dipole field in  
transitions between various drive surfaces. Geomag. i aer.  
4 no.2:397-399 Mr-Ap '64. (MIRA 17:4)

1. Moskovskiy gosudarstvennyy universitet Institut yadernoy  
fiziki.



Plasticizer for polyvinyl chloride. M. V. FREDMAN  
and A. L. KASPEROWICZ U.S. Pat. 3,670,646, Chem. Abstr.  
1972, 77, 18709. Antibacteroid chlorinated at a  
temperature not exceeding 100°, having a specific  
gravity of 1.3-1.4, and containing up to 33%  
chlorine is used.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

POPOVA, Z.V.; YANOVSKIY, D.M.; KOZLOVA, N.V.; KRYMOVA, A.I.

Effect of symmetrical triazine derivatives on the stability of  
poly(vinyl chloride). Zhur.prikl.khim. 35 no.1:164-170 Ja '62.  
(MIRA 15:1)  
(Triazine) (Ethylene)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KOZLOVA, N.V.; KUTEPOV, D.F.; KHOKHLOV, D.N.; KRYLOVA, A.I.

Synthesis and study in the 1,3,5-triamine series. Part 2:  
Interaction of cyanuric chloride with substituted anilines.  
Zhur. ob. khim. 33 no.10:3303-3309 O '63. (MIRA 16:11)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

BOBINKA, I.M.; SELIVAROVA, P.D.; KRYMOVA, A.I.; ZILBERMAN, Ye.N.

Effect of electrolytes and certain organic substances on the  
emulsion polymerization of vinyl chloride. Plast. massy. no.9:  
5-7 '65.  
(MIR 18:9)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYMOVA, A. KH.

29111-Novyy Ratsional'nyy Regim Pressovaniya Khlopkovoy Massegi Trudy Spedneaziat,  
Industr. In-ta, Vyp. 4, 1949, s. 36, 46-Bibliogr. 21 Razv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 29, Moskva, 1949

KRYMOVA, A. KH. I SHAPOVALOV, I. I.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYMOVA, A. KH.

29112-Optimal'nyia Tolshchina i Ves Plitka Zhmykha Na Novom Rezhime Presovaniya  
Khlopkovoy Mezgi Trudy Sredneaziat Industr In-ta, Vyp. 4, 1949 S. 47-52  
Bibliogr: 7 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

KRYMOVA, A. KH. I SHAPOVALOV, I. I.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

KRYMOVA, A. L.

Plasticizer for pol chloride. M. Y. Fel'dman and A. L. Krymova  
(U.S.S.R.P. 6574, Chem. Abs., 1947, 71, 1377).--Anthracene oil chlorinated  
at a temperature not exceeding 100°, having a specific gravity of 1.3 1.4,  
and containing up to 35% chlorine is used.

3S21121. 54262

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYNOVA, K. B., Cand of Med Sci -- (diss) "Clinico-roentgenological diagnosis of peripheral lung cancer." Leningrad, 1957, 11 pp (State Scientific Research Institute of Roentgenology and Radiology), 150 copies (KL, 37-57# 104)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

EXCERPTA MEDICA Sec 15 Vol. 11/9 Chast Sent 58

16)

1840. CLINICO-ROENTGENOLOGIC DIAGNOSIS OF PERIPHERAL CANCER OF  
THE LUNG (Russian text) - Krymova K. B. - VESTN. RENTGENOL.

RADIOL. 1957, 32/5 (48-50) Mus. 9

Out of 180 patients with spherical shadows in the lung, peripheral cancer was found in 87 cases, its favourite localization being the upper lobes and the posterior segments of the upper and lower lobes. There was no preference for either right or left lung. Among roentgenological signs, indistinct patchy outlines, heterogenous structure and increase in size are the most significant; adjacent atelectasis, and pleural changes or destruction are much more rarely observed. Auxiliary roentgenological methods, tomography and bronchography, add materially to the correct diagnosis.

(XIV, 5, 15, 16)

1. Iz radiogenodiagnosticheskogo otdela (zav. - prof. I.A. Shekter)  
Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii  
i radiologii (dbr. - dotsent I.G. Labunova)

(LUNG NEOPLASMS, diag.

clin. & x-ray diag. in peripheral cancer (rus)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYMOVA, K.B.

Clinical and radiographic diagnosis of spherical formations in the  
lungs. Trudy TSentr. nauch.-issl. inst. rentg. i rad. 10:47-54 '59.  
(MIRA 12:9)  
(LUNGS--DISEASES)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

KRYMOVA, K.B. (Moskva, Zh-28, Podkopayevskiy per., d.9, kv.7)

Bronchography in peripheral lung cancer. Vop.onk. 5 no.5:565-571  
'59. (MIRA 12:12)

1. Iz rentgenodiagnosticheskogo otdela (zav. - prof. I.A. Shekter)  
Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii  
i radiologii Ministerstva zdravookhraneniya RSFSR (dir. - dots. I.G.  
Lagunova).

(LUNG NEOPLASMS, diag.  
peripheral, bronchography (Rus))  
(BRONCHI, radiography  
bronchography, diag. value in peripheral lung  
cancer (Rus))

KRYMOVA, K.B., kand.med.nauk

Bronchogenic cysts of the posterior mediastinum [with summary  
in English]. Khirurgija 35 no.1:70-73 Ja '59. (MIRA 12:2)

1. Iz rentgenodiagnosticheskogo ot dela (zav. - prof. I.A. Shekhter)  
Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii  
Ministerstva zdravookhraneniya RSFSR (dir. - dots. I.G. Lagunova).  
(MEDIASTINUM, cysts,  
bronchogenic, of posterior (Bus))

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

ERIUM, B.I.; KHRYMOVA, K.B.; SAVCHENKO, Ye.D.

X-ray diagnosis of lung cancer. Klin.med. 38 no.1:61-66  
Ja '60.

(MIRA 13:10)

(LUNGS—CANCER)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

KRYMOVA, K.B.; SERGEYEV, V.M.

Bronchography in chronic pleural empyemas. Grud.khir. 3 no.6:  
77-85 N-D '61. (MIRA 15:3)

1. Iz Instituta serdechno-sosudistoy khirurgii (dir. - prof.  
S.A. Kolesnikov; nauchnyy rukovoditel' - akad. A.N. Bakulev) AMN  
SSSR.

(EMPYEMA)

(BRONCHI--RADIOGRAPHY)

KRYMOVA, K. B.; KUZ'MICHEV, A. P.

Angiography in lung cancer. Grud. khir. no. 5:81-88 '61.  
(MIRA 15:2)

1. Iz rentgenovskogo otdeleniya (zav. - dotsent M. A. Ivanitskaya)  
i legochnogo otdeleniya (zav. - doktor meditsinskikh nauk N. I.  
Gerasimenko) Instituta grudnoy khirurgii (dir. - prof. S. A.  
Kolesnikov, nauchnyy rukovoditel' - akad. A. N. Bakulev) AMN SSSR.

(LUNGS--CANCER) (ANGIOGRAPHY)

SERGEYEV, V.M., kand.med.nauk; KRYMOVA, K.B., kand.med.nauk; KLIONER, L.I.

Diagnostic significance of angiobronchographic comparisons in  
chronic empyemas of the pleura. Khirurgia 37 no.1:67-74 Ja  
'61. (MIRA 14:2)

1. Iz legcohnogo (zav. - doktor med.nauk N.I. Gerasimenko) i  
rentgenovskogo (zav. - dotsent M.A. Ivanitskaya) otdeleniy  
Instituta grudnoy khirurgii (dir. - prof. S.A. Kolesnikov;  
nauchnyy rukovoditel' - akad. A.N. Bakulev) AMN SSSR.

(EMPYEMA) (LUNGS—BLOOD SUPPLY)  
(ANGIOGRAPHY) (BRONCHI—RADIOGRAPHY)

KRYMOVA, K.B.; GOLONZKO, R.R.; KOTLUKOVA, T.V.

Pleuropulmonary complications following transthoracic operations on esophagus and cardia; Clinical X-ray observations. Grud.khir. no.4:89-95 Jl-Ag '62. (MIRA 15:10)

1. Iz otdeleniya khirurgii pishchevoda (zav. - doktor moditsinskikh nauk Yu.Ye.Berezov) i rentgenologicheskogo otdeleniya (zav. - dotsent M.A.Ivanitskaya) Instituta serdechno-sosudistoy khirurgii (dir. - prof. S.A.Kolesnikov nauchnyy rukovoditel' - akad. A.N. A.N Bakulev) AMN SSSR.

(ESOPHAGUS—SURGERY)  
(STOMACH—SURGERY)  
(LUNGS—DISEASES)  
(PLEURA—DISEASES)

BYKOVA, V.A., dotsent; SERGEYEV, V.M., starshiy nauchnyy sotrudnik;  
KRIMOVA, K.B., starshiy nauchnyy sotrudnik

Slump and alveolar bronchopleural fistulae following partial  
resection of the lung. Vest.khir. no.5:10-22 '62. (MIRA 15:11)

1. Iz Instituta serdechno-sosudistoy khirurgii (dir. - prof.  
S.A. Kolesnikov, nauchn. rukovoditel' - akad. A.N. Bakulev)  
AN SSSR. Adres avtorov: Moskva, Leninskiy pr., d.8, Institut  
serdechno-sosudistoy khirurgii.

(LUNGS—SURGERY) (FISTULA, BRONCHIAL) (PLEURA—DISEASES)

BYKOVA-SARDYKO, V.A. kand. med. nauk; KRYMOVA, K.B., kand. med nauk;  
MAKSIMOV, I.A., kand. med. nauk

Atelectasis following partial resections of the lungs.  
Khirurgiia 38 no.12:34-40 D '62. (MIRA 17:6)

1. Iz legochnogo (zav.- doktor med. nauk N.I. Gerasimenko) i  
rentgenovskogo (zav.- dotsent M.A. Ivanitskaya) otdeleniya  
Instituta serdechno-sosudisoy khirurgii (direktor - prof.  
S.A. Kolesnikov, nauchnyy rukovoditel' - akad. A.N. Bakulev)  
AMN SSSR.

KRYMOVA, K.B., (Moskva, ul. udal'tsova, 7, kvartira 40); GLADKOVA, M.A.;  
MAKSIMOV, I.A.

Criteria for the inoperability of lung cancer. Vop. onk. 9  
no.8:3-10'63  
(MIRA 17:4)

1. Iz Instituta serdechno-sosudistoy khirurgii AMN SSSR (direktor-  
prof. S.A. Kolesnikov, nauchnyy rukovoditel' - akademik A.N.  
Bakulev).

SARDYKO-BYKOVA, V.A., kand. med. nauk (Moskva, Novo-Busmannaya, d.4/6, kv.269)  
KRYNOVA, K.B., kand. med. nauk; MIKSYMOV, I.A., kand. med. nauk

Pulmonary-pleural complications in the immediate postoperative  
period following partial lung resection. Vest. khir. 91 no.9:  
35-43 S'63.

(MIRA 17:4)

1. Iz legochnogo otdeleniya (zav.-doktor med. nauk N.I. Gerasimenko)  
i rentgenovskogo otdeleniya (zav.-dotsent M.A. Vanitskaya Instituta  
grudnoy khirurgii (dir.-prof. S.A. Kolesnikov) AMN SSSR.

KIOMOVA, K.B.; BYKOVA, V.A.; PIROGOV, A.I.

Bronchial tree after partial resections of the lungs. Report No.1.  
Grud. khir. 6 no.4:83-88 Jl-Ag '64.  
(MIRA 18:4)

1. Institut serdechno-sosudistoy khirurgii AMN SSSR (dir. - prof.  
S.A.Kolesnikov, nauchnyy rukovoditel' - akademik A.N.Bakulev),  
Moskva. Adres avtorov: Moskva V-49, Leninskiy prospekt, d.8,  
Institut serdechno-sosudistoy khirurgii.

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CIA-RDP86-00513R000826910005-0

KRYMOVA, L. P.

KRYMOVA, L. P. -- "Investigation of Nicel Borates." Latvian State U, 1951  
(Dissertation for the Degree of Candidate of Chemical Sciences)

SO: Izvestiya Ak. Nauk Latvийской SSR, No. 9, Sept., 1955

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

*✓ Nickel hexaborate decahydrate. I. Krymskij  
PSR Zinov'ev Akad. Nauk 1955, No. 4, p. 420 (in Russian; Latvian summary).—To obtain a cryst. ppt. of  $\text{NiB}_6\text{O}_4 \cdot 10\text{H}_2\text{O}$  (d 1.38, sdg. in 3% aq.  $\text{H}_3\text{BO}_3$  at 0° 45 g. per l.),  $\text{NiB}_4\text{O}_6 \cdot 8\text{H}_2\text{O}$  was dissolved in 3%  $\text{H}_3\text{BO}_3$  soln., cooled to room temp., treated with  $\text{EtO}_2\text{I}$ , and cooled to -8°. In another prepn. 2.8 g.  $\text{NiSO}_4 \cdot 7\text{H}_2\text{O}$  in 100 ml.  $\text{H}_2\text{O}$  was warmed to 35-40° with dil. soln. of excess  $\text{H}_3\text{BO}_3$ , mixed with 3.8 g. borax, filtered, and treated with  $\text{EtO}_2\text{I}$ . On slow heating,  $\text{NiB}_4\text{O}_6 \cdot 10\text{H}_2\text{O}$  lost 5 $\text{H}_2\text{O}$  at 105°, 4 $\text{H}_2\text{O}$  at 100°, and 1 $\text{H}_2\text{O}$  at 100-300°.*

*A. Dravnickis*

*PM*

*2*

KRYMOVA, L.P.

USSR/Inorganic Chemistry - Complex Compounds, C

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61249

Author: Keshan, A. D., Krymova, L. P.

Institution: None

Title: Nickel Hexaborate

Original

Periodical: Izv. AN Latv SSR, 1956, No 1, 131-138; Latvian resume

Abstract: On reaction between solutions of borax and of a Ni salt there separates a light green precipitate having approximate composition  $\text{Ni}_2\text{B}_6\text{O}_{11} \cdot \text{aq}$  (I). By dissolution of I in dilute  $\text{H}_3\text{BO}_3$  and subsequent crystallization has been obtained  $\text{NiB}_6\text{O}_{10} \cdot 8\text{H}_2\text{O}$  (II). Considering I as basic Ni-salt of hexaboric acid the authors render its conversion to II by the scheme:  $\text{NiB}_6\text{O}_{10} \cdot \text{NiO} \cdot \text{aq} + 6\text{H}_3\text{BO}_3 \rightarrow 2\text{NiB}_6\text{O}_{10} \cdot \text{aq} \rightarrow 2\text{NiB}_6\text{O}_{10} \cdot 8\text{H}_2\text{O}$ . In contrast with analogous hexaborates of Mn and Co (Referat Zhur - Khimiya, 1954, 17924) bond stability of all 8 molecules of water in II is almost identical and they are simultaneously

Card 1/2

USSR/Inorganic Chemistry - Complex Compounds, C

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 612+9

Abstract: eliminated in the interval  $100^{\circ}$ - $160^{\circ}$ . On the thermogram is found only one endothermal effect within the interval  $160^{\circ}$ - $250^{\circ}$ . On complete dehydration the color of II changes from blue-green to light green and specific gravity rises from 1.70 to 1.97. On further heating between  $675^{\circ}$  and  $698^{\circ}$  is observed a borate rearrangement accompanied by a conversion of the substance to crystalline state without change in specific gravity but with sharp increase in hardness and a coloration change to brown. Further heating in the interval of  $745^{\circ}$ - $810^{\circ}$  leads to endothermal transition to another polymorphous form with increase in specific gravity to 2.07 and change in coloration to bright green. In water II is hydrolyzed to lower Ni-borates and then to  $\text{Ni(OH)}_2$ ; in alcohol and acetone it is insoluble.

Card 2/2

KHUVES, E.; KRYMOVA, N.

Proper scope of the communal review of the introduction  
of the achievements of science and technology. Muk.-elev.  
prom. 29 no.8:22-24 Ag '63. (MIRA 17:1)

1. Zamestitel' predsedatelya TSentral'nogo pravleniya Nauchno-  
tekhnicheskogo obshchestva mukomol'noy i krupyanoy promyshlennosti i elevatornogo khozyaystva (for Khoves). 2. Uchenyy sekretar' TSentral'nogo pravleniya Nauchno-tehnicheskogo obshchestva mukomol'noy i krupyanoy promyshlennosti i elevatornogo khozyaystva (for Krymova).

NIKOLAYEVA, V.G.; RYABOV, M.N.; IVANYUKOV, D.V.; POPOVA, E.M.; SAMGIN, I.B.;  
ZLOTNIKOV, L.Ye.; DZHINCHARADZE, V.M.; SEN'KINA, M.I.; Prinimali  
uchastiye: KRYMOVA, N.H.; MALINOV, V.K.

Refining of heavy residual fuels by washing and separation.  
Khim.i tekhn.topl.i masel 7 no.5:26-31 My '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke  
nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva,  
Moskovskiy neftepererabatyvayushchiy zavod i Vsesoyuznyy nauchno-  
issledovatel'skiy i konstruktorskii institut khimicheskogo mashino-  
stroyeniya. 2. Moskovskiy neftepererabatyvayushchiy zavod (for  
Krymova, Malinov).

(Petroleum as fuel)

29183      Опыт разведения бол'шеротого окуня в прудах.  
Рыб. хоз-во , 1949, №.9, с. 47-48.

3: Источник: Zhurnal'nykh Statley, Vol.39, Moscow, 1949

AKHMEROV, A.Kh., kand.biol.nauk; BATEMKO, A.I., kand.sel'skokhoz.nauk;  
BRUDASTOVA, M.A., kand.tekhn.nauk; GOLOVINSKAYA, K.A., kand.biolog.  
nauk; GORDON, L.M., kand.ekon.nauk; DOROKHOV, S.M., rybovod-biolog;  
YEROKHINA, L.V., rybovod-biolog; IL'IN, V.M., rybovod-biolog;  
ISAYEV, A.I., rybovod-biolog; KADZEVICH, G.V., rybovod-biolog;  
KOMAROVA, I.V., kand.biol.nauk; KRYMOVA, R.V., rybovod-biolog;  
KULAKOVA, A.M., rybovod-biolog; MAMONTOVA, L.N., kand.biol.nauk;  
MEYSNER, Ye.V., kand.biol.nauk; MIKHEYEV, P.V., kand.biol.nauk;  
MUKHINA, R.I., kand.biol.nauk; PAKHOMOV, S.P., kand.biol.nauk;  
SUKHOVERKHOV, F.M., kand.biol.nauk; SOKOLOVA, Z.P., rybovod-bio-  
log; TSIUNCHIK, R.I., rybovod-biolog; RYZHENKO, M.I., red.; KOSOVA,  
O.N., red.; SOKOLOVA, L.A., tekhn.red.

[Handbook on pond fish culture] Spravochnik po prudovomu rybovodstvu.  
Red.kollektiv: A.I.Isaev i dr. Moskva, Pishchepromizdat, 1959. 374 p.  
(MIRA 13:4)

1. Moscow. Vserossiyskiy nauchno-issledovatel'skiy institut prudo-  
vogo rybnogo khozyaystva.  
(Fish culture)

KOVAL'SKIY, V.V.; KRYMOVA, R.V.; LETUNOVA, S.V., kand.biol.nauk

New data of the study of the regularity of the inclusion of cobalt into the biogenic migration in fishponds. Dokl. Akad. sel'khoz, nauk no.10:24-29 O '65. (MIRA 18:12)

1. Institut geokhimii i analiticheskoy khimii V.I.Vernadskogo i Vsesoyuznyy nauchno-issledovatel'skiy institut prudovogo rybnogo khozyaystva. 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Koval'skiy).

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

PAN'KINA, I.F.; KRYMOVA, S.V.

Seventh Leningrad Urban Conference of Young Surgeons. Vest.khir.  
87 no.11:138-143 N '61. (MIRA 15:11)  
(SURGERY)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

SPIKHNLINA, Z.I., rabotnik laboratorii zaveda; KRYMOVA, Yu.N., rabotnik  
laboratorii zaveda.

State inspection of instruments and their repair. Zav.lab.22 no.4:  
507 '56. (Instruments) (MIRA 9:7)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

KRYMOWSKI, Tadeusz

Physiology of the hemopoietic system in calves during their first few weeks of life. Acta physiol. polon. 5 no.4:523-525 1954.

1. Z Zakladu Fizjologii Zwierząt Wydz. Weterynaryjnego Szkoły Głównej Gospodarstwa Wiejskiego w Warszawie. Kierownik: prof. dr B. Gutowski.  
(HEMOPOIETIC SYSTEM, physiology,  
in calves)  
(CATTLE,  
hemopoietic system in calves)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

USSR/Human and Animal Physiology - Metabolism.

V-2

Abs Jour : Ref Zhur - Biol., No 1, 1958, 3657

Author : I.I. Ivanov, V.A. Yur'yev, V.V. Kadykov, B.M. Krymskaya,  
V.P. Moiseyeva, S.Ye. Tukachinskiy

Inst : Academy of Sciences, USSR

Title : Proteins of the Proactomyosin Complex in Ontogeny.

Orig Pub : Dokl. AN SSSR, 1956, 111, No 3, 649-651

Abstract : The fractional composition of proteins in the somatic muscles of rabbits at various stages of embryonic and post-natal development was studied by means of free electrophoresis and paper electrophoresis. There was a great difference in the fractional composition of muscular proteins between embryonic and new-born rabbits, on one hand, and adult animals on the other hand. The contracting capacities of the proteins corresponded to

Card 1/2

USSR/Human and Animal Physiology - Metabolism.

V-2

Abs Jour : Ref Zhur - Biol., No 1, 1958, 3657

the particularities of their composition. In presence of ATP [ATP  $\ddot{\gamma}$ ], the contracting ability of protein fibers from muscle proteins is the less pronounced the younger is the animal. Therefore, there is - in ontogeny - a gradual change of the fractional composition of the striated muscle proteins towards an increase of the actomyosin fraction, which is formed from the "proactomyosin complex".

1. Leningradskiy pediatricheskiy meditsinskiy institut.  
Predstavleno akademikom L. A. Orbeli.  
(ACTINS) (MYOSIN) (EMBRYOLOGY)

Card 2/2

IVANOV, I.I.; YUR'YEV, V.A.; NOVOZHILOV, D.A.; MIKHAYLOVSKAYA, L.A.;  
KRYMSKAYA, B.M.

Biochemical determination of the functional condition of muscles in  
poliomyelitis. Vop.med.khim. 5 no.4:243-250 Jl-Ag '59.

1. Kafedra biokhimii Leningradskogo pediatricheskogo meditsinskogo  
instituta i biokhimicheskaya laboratoriya Nauchno-issledovatel'skogo  
det'skogo ortopedicheskogo instituta imeni G.I. Turnera.  
(POLIOMYELITIS pathol.)  
(MUSCLE PROTEINS) (MIRA 12:12)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

SAMOKHVALOV, A.V.; BERG, Yu.N.; LIVSHIN, A.M.; MARKINA, Ye.A. [Markina, Ye.A.]; KRYMSKAYA, B.M. [Kryms'ka, B.M.]

Fractional composition of water soluble neuroglia proteins.  
Ukr. biokhim. zhur. 37 no.4:510-521 '65. (MIRA 18:9)

1. Kafedra biokhimii Leningradskogo pediatricheskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

KRYMSKAYA, I.V.

Causes of mortality among the adult population of the city of Rostov-on-Don. Sbor. nauch. trud. Rost. gos. med. inst. no.22:84-89 '63.

(MIRA 18:7)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny Rostovskogo gosudarstvennogo meditsinskogo instituta (zav. - prof. A.S.Gromov).

KRYMSKAYA, I.V.

Quality of medical diagnoses in outpatient polyclinical institutions  
of Rostov-on-Don. Sbor. nauch. trud. Rost. gos. med. inst. no.22;114-  
119 '63. (MIRA 18:7)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny  
Rostovskogo gosudarstvennogo meditsinskogo instituta (zav. - prof.  
A.S.Gromov).

KRYMSKAYA, M. L.

58/49T87

USER/Medicine - Diseases, Hemorrhage  
Medicine - Hormonotherapy

Feb 49

"An Experimental Hormonotherapy of Certain  
Forms of Functional Uterine Hemorrhages",  
A. P. Preobrazhensky, M. L. Krymskaya, Inst of  
Obstetrics and Gynecol Acad Med Sci USSR, 5 pp

"Klin Med" Vol XXVII, No 2

Progesterone and pregnane used periodically  
are highly effective agents for treating  
metrorrhagia and irregular juvenile and  
oligomenorrhea uterine hemorrhages. They produce  
a substitutive action and stimulate ovulation

58/49T87

USER/Medicine - Uterine Hemorrhage  
(Contd)

Feb 49

and development of the corpus luteum. They also :  
restore normal menstrual period in these cases,  
which may be explained by their action on  
hypophysis.

58/49T87

KRYMSKAYA, M.L.

Functional diagnosis and hormonal therapy of certain forms of amenorrhea. Akush.gin. No.5:23-27 Sept-Oct 50. (CLML 20:5)

1. Of the Institute of Obstetrics and Gynecology (Director-- L.G.Stepanov), Ministry of Public Health USSR.

KRYMSKAYA, M. L.

KRYMSKAYA, M. L.: "The functional diagnosis and hormonal therapy of certain forms of amenorrhea". Moscow, 1955. Moscow State Medical Inst imeni I. V. Stalin. (Dissertations for the degree of Candidate of Medical Science.)

SO: Knizhnaya Letopis' No. 50 10 December 1955. Moscow.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYMSKAYA, M.L., kand.med.nauk (Moskva)

Diagnosis and treatment of amenorrhea.. Sov.med. 22 no.8:89-94 Ag '58  
(MIRA 11:10)

(AMENORRHEA,  
diag. & ther. (Rus))

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYMSKAYA, M.L., kand.med.nauk (Moskva)

Childless marriage. Med.sestra 18 no.11:18-22 N '59.

(MIRA 13:3)

(STERILITY)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

VIKHLYAYEVA, Ye.M.; KRYMSKAYA, M.L.

First republic conference devoted to problems in the pathology of  
the female climacteric. Akush.i gin. 35 no.4:104-106 Jl-Ag 59.

(CLIMACTERIC)

(MIRA 12:11)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

KRYMSKAYA, M.L., kand.meditinskikh nauk

Diagnosis and treatment of various forms of primary sterility.  
Sov. med. 24 no. 7:33-38 Jl '60. (MIRA 13:8)

1. Iz endokrinologicheskoy kliniki (zav. - prof. Ye.I. Kvater)  
Instituta akusherstva i ginekologii (dir. - doktor meditsinskikh  
nauk O.V. Makeyeva) Ministerstva zdravookhraneniya RSFSR.  
(STERILITY)

KRYMSKAYA, M.L., kand.med.nauk

Physiological and pathological climacteric. Med. sestra 22  
no.3:19-22 Mr'63. (MIRA 16:6)

1. Iz instituta akusherstva i ginekologii Ministerstva zdra-  
voохранения РСФСР, Москва.  
(CLIMATERIC)

KRYMSKAYA, M.L.; STARKOVA, N.T.

Some forms of sterility and their treatment with prednisolone.  
Akush. i gin. no.1:3-8 '63. (MIRA 17:6)

1. Iz endokrinologicheskogo otdeleniya (zav. - prof. Ye.I.Kvater),  
Nauchno-issledovatel'skogo instituta akusherstva i ginekologii  
(dir.-prof. O.V. Makeyeva) i kafedry endokrinologii (zav. -  
dotsent D.N. Anosov) TSentral'nogo instituta uchebo-vysshego obrazovaniya  
vrachey (dir. M.D. Kovrigina).

KVATER, Ye.I.; KRYMSKAYA, M.L.

Stein-Leventhal syndrome and its variations. Akush. i gin. 40  
no.3:65-71 My-Je '64. (MIRA 18:6)

1. Endokrinologicheskaya otdeleniya (zav. - prof. Ye.I.Kvater)  
Nauchno-issledovatel'skogo instituta akusherstva i ginekologii  
(dir. - prof. O.V.Makayeva), Ministerstvo zdravookhraneniya  
SSSR, Moskva.

KRYMSKAYA, O.I., inzh.

Method of designing hawseholes with recesses. Sudostroenie 28  
no.8:20-21 Ag '62. (MIRA 15:8)  
(Hulls (Naval architecture)) (Anchors)

KRYMSKAYA, V. M., USHAKOVA, M. S., LOPATINA, N. I., OFITSEROVA, V. N. (Deceased),  
YURYEV, V. A., SALAZKINA, S. S.(Deceased), SOLOV'YEV, L. T.(Deceased).

"The Separation of Mixtures of Amino Acids by the Method of Exchange Adsorption in Columns Filled With Synthetic Resins," an article included in the book "The Theory and Practice of the Application of Ion-Exchange Agents," edited by K. V. Chmukov and published by the AS USSR, 1955, 164 pp.

PLUZHNIKOV, A. I., kand. tekhn. nauk, nauchn. red.; KRYMSKIY, A. N.,  
kand. tekhn. nauk, red.; ZHURAVLEVA, M. N., red.izd-va;  
DEM'KINA, N. F., tekhn. red.

[Using stepless transmissions in tractors and agricultural  
machines] Primenenie besstupenchatykh peredach v traktorakh  
i sel'skokhoziaistvennykh mashinakh; sbornik dokladov. Mo-  
skva, Mashgiz, 1963. 157 p. (MIRA 16:9)

1. Nauchno-tehnicheskoye obshchestvo mashinostroitel'noy  
promyshlennosti. Tsentral'noye pravleniye.  
(Agricultural machinery--Transmission devices)  
(Tractors--Transmission devices)

Collective Farms

Keeping count of bread baked for common consumption on collective farms. Kolkh. proizv. 12 no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1957, Uncl.

2

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYMSKIY, D.M.; MISHCHENKO, N.I.

Six-spindle centrifugal bronze-bushing casting machine. Lit.proizv. no.8:  
27-28 Ag '53.  
(MLRA 6:8)  
(Die--Casting) (Bearings (Machinery))

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

ASHEYEV, K.K.; KRYMSKIY, D.M.; MISHCHENKO, N.I.

*Casting iron pistons. Lit. proizv. no. 5:25-27 Ag '54. (MLRA 7:8)*  
*(Pistons) (Iron founding)*

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

B. T. R.  
Vol. 3 No. 4  
Apr. 1954  
Metals-Foundry Practice

5282° Six-Spinde Centrifugal Machine for Casting Bronze  
Bushings. (Russian.) D. M. Krymskii and N. T. Michchenko,  
Litsinoe Photozdatoo, 1953, no. 8, Aug., p. 27-28.  
Machine decreased rejects 2 to 8% and increased yearly output.  
Table, diagrams.

(2) That

6/8/57

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYMSKIY, D.M.

The use of quick drying mixtures for compressor building.  
Lit. proizv. no.6:31 Je '55. (MLRA 8:8)  
(Founding) (Compressors)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYMSKIY, D.M., inzhener.

Centrifugal casting of cylinder sleeves. Lit.proizv. no.12:27-28  
D '55. (MLRA 9;3)

(Centrifugal casting)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

SOV/128-59

18(5)  
AUTHOR:  
TITLE:

**TITLE:**  
**PERIODICAL**  
**ABSTRACT:**

SOV/128-77

Krymskiy, D.M., Engineer  
Crystallization of Cast Iron During Centrifugal Casting

The process of crystallization of cast iron during centrifugal casting was already studied by A.I. Baykov and S.M. Skorodziyevskiy. The author studied the formation of the hard crust of these castings and did some experiments. The horizontal casting was conducted with a diameter of 209 mm at a temperature of 30-60 °C and rotation 750 times per minute for 30-60 seconds. The chemical content of the casting iron was 0.06% Mn, 0.08% S and 0.15 - 1.45% Si. After stopping the casting the developed crust cracked and dropped down (Fig. 2). Measurements were taken of small parts of the crust and a scheme for a crystallization process during the centrifugal casting could be established (Fig. 3, 4). In accordance with the monistic theory of crystallization of cast iron during centrifugal casting, the following stages are distinguished:

1. Salicylum formation. The salicylum is formed as a result of the action of the molten metal on the crucible lining.

2. Crystallization of the melt. The melt crystallizes on the surface of the salicylum.

3. Growth of the crystalline structure. The crystalline structure grows from the surface of the salicylum into the melt.

4. Formation of the casting. The casting is formed as a result of the solidification of the melt.

Card 2

card 1/2

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYMSKIY, D.M.

Strainer-core gatings. Lit.proizv. no.11:43 N '62.

(Foundries—Equipment and supplies)

(MIRA 15:12)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KRYMSKIY, D.M., inzh.

Machine for hardening the valve plates of compressors. Khim. i  
neft. mashinostr. no.543 N '64 (MIRA 18:2)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

KALINNIKOV, A.V., inst., KRYMSKIY, D.M., inst.

Mechanized heat treatment of compressor valve plates. Mashinostroenie  
no.1:68-70 Ja-F '65. (MIREA 18:4)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

..... A.

Mrs. J. M. J. A. --"Investigation of High-Capacity Low-Voltage Circuit Breakers."  
\*(Dissertations for Degrees in Science and Engineering) (defended at U.S.R.U. (the Educational Institutions) Min. of Higher Education USSR, degree: Order of Lenin Paper Inst. Irkutsk  
V. I. Lenin, Russia, 1956

SC: Knizhnyaya Literatura, No. 25, 1<sup>st</sup> Jun 55

\* For Degree of Candidate in Technical Sciences

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"



~~KRYMSKIY, G.A., kandidat tekhnicheskikh nauk; KARACHENTSEV, B.I., inzhener;~~  
~~BURMENOV, A.N., inzhener.~~

New series of heavy-duty demountable fuses without filler. Vest.  
elektreprem. 28 no.3:8-10 Mr '57.  
(MIRA 10:4)

1. Zaved "Dinamo".  
(Electric contactors)

Krymskiy, G.A.

110-12-7/19

AUTHOR: Krymskiy, G.A., Candidate of Technical Sciences and  
Lomazov, L.S., Engineer.

TITLE: Non-electric Tests on Tubular Fuses without Filling.  
(Ne-elektricheskiye ispytaniya trubchatykh predokhraniteley  
bez napolnitelya)

PERIODICAL: Vestnik Elektropromyshlennosti, 1957, Vol.28, No.12,  
pp. 25 - 26 (USSR).

ABSTRACT: In accordance with the requirements of standard ГОСТ 3041-45, rupturing capacity tests must be made on each type of tubular fuse four times a year. As the tests require special and expensive equipment, the alternative of mechanical and hydraulic testing of fuse cartridges can be very useful. The Kharkov Electro-mechanical Works (KhEMZ) has introduced mechanical tensile testing of fuse assemblies, and the authors have proposed hydraulic testing at pressures rising at the rate of 400 atm./sec. Mechanical testing checks the strength of the joint between the cap and the tube. Hydraulic tests give a better idea of the strength of the cartridges because they approach more closely to service conditions. Test results on various fuses are tabulated to show that the stresses produced at failure in hydraulic and electrical tests are comparable, but that in mechanical testing they are two or three times as Card1/2 high. The effect varies for different types of fuses and some

Non-electric Tests on Tubular Fuses without Filling. 110-12-7/19  
give quite good results with mechanical testing.  
non-electrical tests carried out on fuse cartridges type MP-1  
reveal the following causes of their low rupturing capacity:  
the 15 - 60 A cartridges are mechanically weak because of poor  
design of the fixing; also, the fibre tubes of the 100 A  
cartridges are too weak. Test results on cartridges type MP-2  
from which these defects have been eliminated are given in  
Table 2.  
The Ufa Works has recently received requests from other factories  
to simplify the design of cartridge fuses. The proposals would  
usually impair the mechanical strength of the fuses. Mechanical  
and hydraulic tests can often be used to disown such  
proposals quickly and cheaply.  
There are 2 figures, 2 tables.

ASSOCIATION: Ufa Aviation Institute (Ufimskiy Aviatsionnyy Institut)  
Ufa Low-voltage Apparatus Works (Ufimskiy Zavod  
Nizkovol'tnoy Apparatury)

SUBMITTED:

September 11, 1956.

AVAILABLE:  
Card 2/2

Library of Congress

SOV/110-59-3-16/25

AUTHOR: Krymskiy, G.A., Candidate of Technical Sciences

TITLE: The Equivalence of Direct Current and Alternating Current Tests on Fuses (Ob ekvivalentnosti ispytaniy predokhraniteley na peremennom i postoyannom toke)

PERIODICAL: Vestnik Elektropromyshlennosti, 1959, Nr 3, pp 61-64 (USSR)

ABSTRACT: Soviet standards give fuse ratings on alternating current and it is often desirable to know the rupturing capacity on direct current. There is no simple way of converting a.c. to d.c. rating applicable to different types of fuse. The rupturing capacity of a fuse is stated to be governed by the amount of energy evolved in the cartridge whilst the arc is burning and the rupturing capacity to a.c. and d.c. will be the same if the arc energy is the same in the two cases. Theoretical methods of calculating the arc energy on a.c. are then considered. The question of which phase will blow first on an a.c. three-phase test is considered with reference to Fig 2. Expressions are given for the arc current and voltage and then it is shown that the a.c. arc energy depends upon the energy in the magnetic field of the

—Card 1/7

SOV/110-59-3-16/25

The Equivalence of Direct Current and Alternating Current Tests  
on Fuses

phase at the moment when the arc is struck. A semi-graphical method of determining this energy is explained with reference to Fig.3. Equations are given which show that the magnetic field energy does not depend on the current scale of the diagram and, therefore, a system of curves can be constructed for a number of values of the main variables. The system of curves can then be used to determine the magnetic field energy as a function of current for fusible elements of various materials. Curves required for the calculation of the a.c. arc energy are given in Fig.4 and 5. A formula is then given for the d.c. arc energy. Finally curves are derived for converting fuse ratings at 500 V a.c. to 440 V d.c. - see Fig.6. A worked numerical example of the use of the method is given.

Card 2/3

KRYMSKIY, G.A., kand.tekhn.nauk; KOTEL'NIKOV, B.P., inzh.

Concerning the economy of zinc in the manufacture of fuses for  
PR-2 fuse boxes. Vest. elektroprom. 31 no.8:20-23 Ag '60.  
(Electric fuses) (MIRA 15:5)

3,2410 (2205, 2705, 2805)

3,9120

AUTHORS:

Kuz'min, A.I., Danilov, A.A., Krymskiy, G.F., and  
Skripin, G.V.

TITLE: Energy characteristics of cosmic-ray variations  
during magnetic disturbances

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 4, 1962, 14, ab-  
stract 4G74 (v. sb. Kosmicheskiye luchi, no. 4, M.,  
AN SSSR, 1961, 16-24)

TEXT: The data obtained with a number of surface and underground  
instruments at Yakutsk are used to analyze the energy characteris-  
tics of cosmic-ray intensity variations during magnetic storms. It  
is shown that the intensity recovery period after the Forbush-effect  
minimum decreases with increasing depth of the recording device. For  
some Forbush-type reductions there is a noticeable North-South ani-  
sotropy in this effect. The method of coupling coefficients is used  
to determine the energy spectrum of the primary radiation during  
Forbush effects. Best agreement between experimental data and theo-  
retical predictions is obtained with the following primary differen-

Card 1/2

37290  
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D218/D302

Energy characteristics of ...

S/169/62/000/004/075/103  
D218/D302

tial spectrum

$$\frac{\delta D(\epsilon)}{D(\epsilon)} = -a \begin{cases} \epsilon^{0.7} & \text{at } \epsilon > \epsilon_1 \\ 0 & \text{at } \epsilon < \epsilon_1 \end{cases}$$

✓

Further analysis shows that the effective width of the corpuscular stream should depend on the energy of the scattered particles. It is suggested that the regular field of the stream carries with it magnetic irregularities which give rise to scattering and diffusion of moderate-energy particles. The parameters of the streams, and the magnetic irregularities carried by them, are estimated. [Abstractor's note: Complete translation].

Card 2/2

KUZ'MIN, A.I.; SHAFER, G.V.; ~~RYMSKIY, G.F.~~; SHAFER, Yu.G.

Cosmic ray flares during Nov. 12-15, 1960. Geomag. i aer. 1  
no.4:510-522 Jl-Ag '61. (MIRA 14:12)

1. Sibirskoye otdeleniye AN SSSR, Yakutskiy filial.  
(Cosmic rays)

**81493**S/020/61/137/004/017/031  
B104/B206**9,9130 (incl. 2305, 2705)**AUTHORS: Kuz'min, A. I., Krymskiy, G. F., Shafer, G. V.; and  
Schafer, Yu. G.

TITLE: Cosmic radiation flares from November 12 to 15, 1960

PERIODICAL: Doklady Akademii nauk SSSR, v. 137, no. 4, 1961, 844-847

TEXT: During the period of November 12 to 17, 1960, intense cosmic radiation, connected with events on the sun, were observed in Yakutsk (geomagnetic latitude 51°) by continuous observations. The recordings are shown in the two figures. The sudden intensity increase of the neutron component started on November 12, at 13 hr 45 min (1345 UT) universal time and coincided with the start of a very strong magnetic storm (1348 UT). At 1630 UT the intensity reached a maximum, which was 65 % higher than the normal value. At 1815 UT a second rise of the intensity started and reached a maximum value at 2000 UT, which was 100 % higher than the normal value. Both times radio waves were totally absorbed in the ionosphere above Yakutsk. With the start of the second rise of the neutron component, a drop of the Forbush type was indicated by all recording devices for the

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9	Y	:	:
1	N	:	:
1	E	:	:
9	F	:	:

X

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B104/3206

Cosmic radiation flares from...P

hard component of cosmic radiation. The energy spectrum of the group is satisfactorily described by Eqs.

$$\frac{\delta D(\epsilon)}{D(\epsilon)} = - \begin{cases} 1, & \text{если } \epsilon < \epsilon_1/4; \\ \frac{2}{\pi} \arcsin(\epsilon_1/2\epsilon - 1), & \text{если } \epsilon_1/4 < \epsilon < \epsilon_1/2; \\ 0, & \text{если } \epsilon > \epsilon_1/2. \end{cases} \quad (2)$$

$\epsilon_1 = 130 - 170$  Bev. A second and third flare of the hard component of cosmic radiation was also observed, the third being described as Delling effect. The coincidence of the start of the magnetic storm and the first flare convinces the authors that the initial particle flare was a corpuscular flow which then triggered off the magnetic storm. The velocity of the corpuscular flow is given as  $3 \cdot 10^8$  cm/sec. If it is assumed that the reduction of the Forbush type is caused by the regular magnetic field, it can be concluded from the delay of this effect compared with the start of the magnetic storm that the magnetic field was strongly disturbed in the front part of the flow. It is possible that the particle flow reached there an energy comparable with the energy density of the magnetic field. The relatively small second reduction of the intensity of the hard

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Cosmic radiation flares from...

S/020/61/137/004/017/031  
B104/B206

component of cosmic radiation and the absence of a neutron-component reduction points towards the existence of accelerated particles in the particle flow. Amplitudes and time of the maximum of the daily disturbances agree with the velocity of the particle flow and the direction of the magnetic field in the flow (opposite to that of the earth). The authors come to the conclusion that the ejection of the particle flow was caused by solar cosmic rays, which partly produced the flares on the earth and was partly captured by the particle flow. Particles of up to 7 Bev were captured thereby. For a free incidence of the particles of the second flare on the earth, it was necessary that the direction of the magnetic field of the first flow coincided with the axis of this flow. There are 2 figures and 3 Soviet-bloc references.

ASSOCIATION: Laboratoriya fizicheskikh problem Yakutskogo filiala Sibirskogo otdeleniya Akademii nauk SSSR (Laboratory for Problems of Physics of the Yakutsk Branch of the Siberian Department, AS USSR)

PRESENTED: December 16, 1960, by M. A. Lavrent'yev, Academician

Card 3/8

KUZ'MIN, A.I.; KRYMSKIY, G.F.; SKRIPIN, G.V.

Angular distribution of cosmic ray intensity below ground  
at depths equivalent to 0 to 60 meters of water. Trudy  
IAFAN SSSR. Ser. fiz. no.4:22-25 '62. (MIRA 15:12)  
(Cosmic rays)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0

DANILOV, A.A.; KRYMSKIY, G.F.; FILIPPOV, V.A.

Results of studying the quantity  $\gamma'_{\text{eff}}$  in the differential spectrum of  $\pi$ -meson production. Trudy IAFAN SSSR. Ser. fiz. no.4:41-48 '62. (MIRA 15:12)

(Cosmic rays)  
(Mesons—Spectra)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

KRYMSKIY, G.F.

The multiplicity factor. Trudy IAFAN SSSR. Ser. fiz. no.4:57-60  
'62. (MIRA 15:12)

(Mesons—Spectra)  
(Cosmic rays)

3.2410 (2805)

42257

S/845/62/000/004/010/013  
E032/E314

AUTHOR: Krymskiy, G.F.

TITLE: Lunar-diurnal variations in cosmic rays

SOURCE: Akademiya nauk SSSR. Yakutskiy filial. Trudy. Seriya fizicheskaya. no. 4. 1962. Variatsii intensivnosti kosmicheskikh luchey, 108 - 110

TEXT: An analysis is reported of the data obtained as a result of continuous recording of cosmic rays between September, 1957, and August, 1958, using a neutron monitor and an ionisation chamber. Two-hourly values of the intensity, corrected for the barometric effect and for solar-diurnal variation, were employed. The solar-diurnal variation was excluded by averaging the data over 30-day intervals. The mean monthly values of the lunar-diurnal variation thus obtained were then subjected to a harmonic analysis. Fig. 1 shows a vector diagram of the lunar-diurnal variation relative to the upper culmination of the Moon. Each vector corresponds to a mean monthly value of the amplitude and phase of the lunar-diurnal wave. Fig. 2 shows the half-diurnal lunar variation. As can be seen, the latter has a more stable phase (in each case, *LX*)

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Lunar-diurnal variations ....

S/845/62/000/004/010/013  
E032/E314

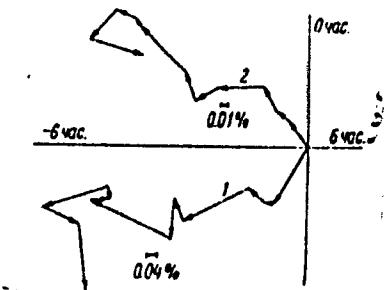
curve 1 is for the neutron component and curve 2 for the hard component). The table shows the amplitude and the time of maximum of the first and second harmonics of the mean monthly values of the lunar-diurnal variation. There are 2 figures and 1 table.

Fig. 1:

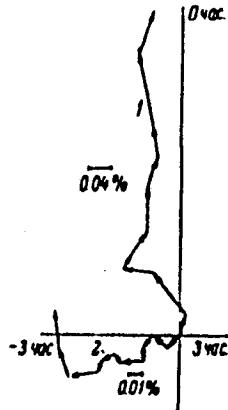
 $\gamma\text{ac} = \text{hour}$ 

Fig. 2:

4



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KUZ'MIN, A.I.; SHAFER, G.V.; SHAFER, Yu.G.; KRASIL'NIKOV, D.D.;  
KRYMSKIY, G.F.; MAMRUKOV, A.P.; SMIRNOV, N.S.; YARIN, V.I.

July 1959 according to data of comprehensive geophysical  
observations at Yakutsk. Trudy IAFAN SSSR. Ser. fiz. no.4:142-156  
'62. (MIRA 15:12)

(Magnetic storms)  
(Cosmic rays)

S/048/62/026/006/016/020  
B125/B102

AUTHORS: Kuz'min, A. I., Krymskiy, G. E., Skripin, G. V., Chirkov,  
N. P., Shafer, G. V., and Shafer, Yu. G.

TITLE: Some results of investigations relating to variations of  
cosmic rays

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,  
no. 6, 1962, 808-817

TEXT: The main results gained in the Yakutskaya laboratoriya (Yakutsk  
Laboratory) concerning various meteorological effects and primary  
variations are here reviewed, covering papers published by Kuz'min et al.  
in Tr. Yakutskogo filiala AN SSSR. Ser. fiz., no. 5, 1962. There are  
12 figures and 1 table.

ASSOCIATION: Yakutskiy filial Sibirskogo otdeleniya Akademii nauk SSSR,  
Laboratoriya fizicheskikh problem (Yakutsk Branch of the  
Siberian Department of the Academy of Sciences USSR,  
Laboratory of Physical Problems)

Card 1/1

KUZ'MIN, A.I.; SKRIPIN, G.V.; KRIVOSHAPKIN, P.A.; KRYMSKIY, G.P.

Energy spectrum of the diurnal variation of cosmic rays and  
the diurnal temperature fluctuations at an altitude from 20  
to 40 km, Geomag. i aer. 3 no.5:830-834 S-0 '63.(MIRA 16:11)

1. Yakutskiy filial Sibirskogo otdeleniya AN SSSR.

KUZ'MIN, Arian Il'ich. Prinimal uchastiye KRYMSKIY, G.F.; kand.  
fiz.-matem. nauk, otd. red.

[Variations in high-energy cosmic rays] Variatsii kosmicheskikh luchei vysokikh energii. Moskva, Nauka, 1964.  
125 p. (MIRA 18:3)

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L 42008-65

ACCESSION NR: A75006963

for discussion of the results". Orig. art. has: 13 formulas, 4 figures  
and 2 tables.

SUBMITTED: 23 Oct 64

ENCL: 00

SUB CLASS: 44

STRENGTH: 40%

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826910005-0"

~~DOKOLOV, V. D., Klymovsky, S. F.; PREVIOUSLY~~

TITLE: Seasonal variations in the intensity of cosmic rays in the stratosphere

ABSTRACT: The seasonal variation of the intensity of cosmic rays in the stratosphere is mainly determined by the variation of the solar activity. The variation of the intensity of cosmic rays in the stratosphere is mainly determined by the variation of the solar activity.

KEYWORD: The intensity of cosmic rays in the stratosphere; seasonal variation; variation of the solar activity.

THE INTENSITY OF COSMIC RAYS IN THE STRATOSPHERE AND ITS SEASONAL VARIATION